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### **Google**

"dynamic transposition" OR "dynamic permutation"  
multiplexing permutation"  
secure speech communications" beker piper  
"truncated permutation"  
permutation ("xor" OR "x-or" OR "exclusive-OR") random

### **ACM**

searched via google  
author: ritter

### **IEEE**

("dynamic permutation" <or> "dynamic transposition")  
(ritter <in> au)  
("hopping sequence" <or> "frequency hopping") <and> (random)

### **Applications/Patents from Inventor Search**

L Number	Hits	Search Text	DB	Time stamp
1	1	("4597087").PN.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/05/03 07:37
-	158	(380/47).CCLS.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/30 07:46
-	139	((380/47).CCLS.) and @ad<19991112	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/30 07:46
-	1097	(itt and manufacturing).as. and @ad<19991112	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/28 09:12
-	0	((itt and manufacturing).as. and @ad<19991112) and permutat\$3	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/28 09:12
-	16	((380/47).CCLS.) and @ad<19991112) and permutat\$3	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/28 09:39
-	21	((380/47).CCLS.) and @ad<19991112) and permutat\$6	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/28 15:22
-	536	@ad<19991112 and ((frequency adj2 hop\$4) same random)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/28 15:23
-	26	@ad<19991112 and ((frequency adj2 hop\$4) same random) and permutat\$7	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/28 15:40
-	145	@ad<19991112 and (random adj permutat\$7)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/28 15:41
-	1	("5734721").PN.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/28 15:59
-	5	("4658094"   "4685132"   "4809295"   "5048086"   "5438622").PN.	USPAT	2004/04/28 15:47
-	270	(340/870.22).CCLS.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/28 16:00
-	116	(714/702).CCLS.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/28 16:00
-	181	((340/870.22).CCLS.) ((714/702).CCLS.) and @ad<19991112	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/29 10:51
-	3033	@ad<19991112 and (frequency near hopping)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/29 10:52
-	416	@ad<19991112 and (frequency near hopping) same (increment\$3 increas\$3)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/29 10:52
-	117	@ad<19991112 and (frequency near hopping) same (increment\$3 increas\$3) same number	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/29 10:53

-	2	@ad<19991112 and (frequency near hopping) same (increment\$3 increas\$3) same (count)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/29 10:56
-	8947	@ad<19991112 and (frequency near3 sequence)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/29 10:57
-	229	@ad<19991112 and (frequency with sequence with increment)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/29 10:57
-	5	@ad<19991112 and (frequency with sequence with increment with random)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/29 11:24
-	1090	@ad<19991112 and (frequency with sequence with random)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/29 11:24
-	120	@ad<19991112 and (frequency with hopping with sequence with random)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/29 14:54
-	84	@ad<19991112 and (permut\$7 near3 subset)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/29 14:55
-	161	@ad<19991112 and (permut\$7 with subset)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/29 14:55
-	35	@ad<19991112 and (permut\$7 near subset)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/29 14:55
-	27	@ad<19991112 and (permut\$7 with subset) and random and \$crypt\$	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/29 15:12
-	1	("5,623,549").PN.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/29 15:15
-	1	("4,979,832").PN.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/29 15:50
-	2	("1310719").PN.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/29 15:32
-	4391	(random adj number) same (memory)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/29 15:54
-	5	random adj code adj memory	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/29 15:54
-	32	@ad<19991112 and ((hop hopping) adj sequence) near4 (clock counter increment\$3)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/30 08:03
-	19	@ad<19991112 and ((hop hopping) adj sequence) and ((clock counter increment\$3) with (time adj slot))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/30 08:04
-	3	@ad<19991112 and ((hop hopping) adj sequence) and ((clock counter increment\$3) with (time adj slot)) and (permut\$7)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/30 08:09

-	2024	@ad<19991112 and ((time adj slot) with counter)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/30 08:08
-	495	@ad<19991112 and ((time adj slot) adj counter)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/30 08:08
-	495	@ad<19991112 and ("time slot counter")	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/30 08:08
-	6	@ad<19991112 and ("time slot counter") and permut\$7	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/30 08:08
-	16	"hop clock"	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/30 08:57
-	22	((transposition and ("frequency hopping" ((hop hopping) adj sequence)))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/30 09:20
-	59	((hop hopping) adj sequence adj generat\$3)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/30 09:24
-	51	((hop hopping) adj sequence adj generat\$3) and random	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/30 09:24
-	27	((hop hopping) adj sequence adj generat\$3) and random and @ad<19991112	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/05/03 07:37
-	24	("4476566"   "4639548"   "5287384"   "5375140"   "5425049"   "5463659"   "5539730"   "5555257"   "5566168"   "5568088"   "5574967"   "5594941"   "5619210"   "5619503"   "5631604"   "5631898"   "5638024"   "5642358"   "5729538"   "5751761"   "5862142"   "5943331"   "5987014"   "5995533").PN.	USPAT	2004/04/30 14:12
-	3	@ad<19991112 and (random near generat\$3) and (reus\$3 near random)	USPAT	2004/04/30 14:22
-	1	@ad<19991112 and (random near generat\$3) and (reus\$3 near random) and randomizer	USPAT	2004/04/30 14:23